Safari for Web Designers

Session 135

These are confidential sessions—please refrain from filming or taking pictures.

Application Technologies

Safari for Web Designers

Building content for the new Web

Vicki Murley
Safari Enterprise Compatibility Engineer

http://developer.apple.com/wwdc2005/

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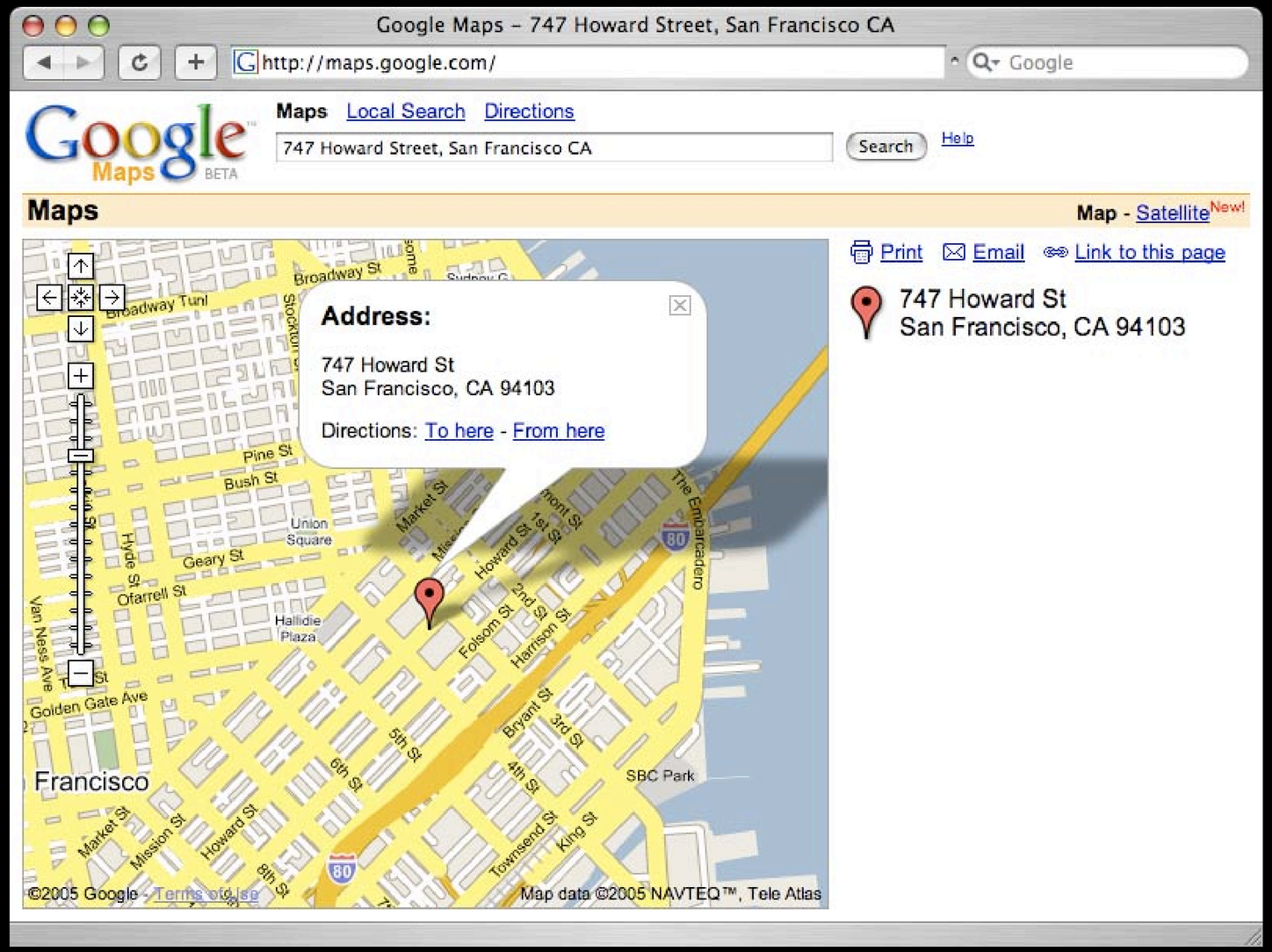
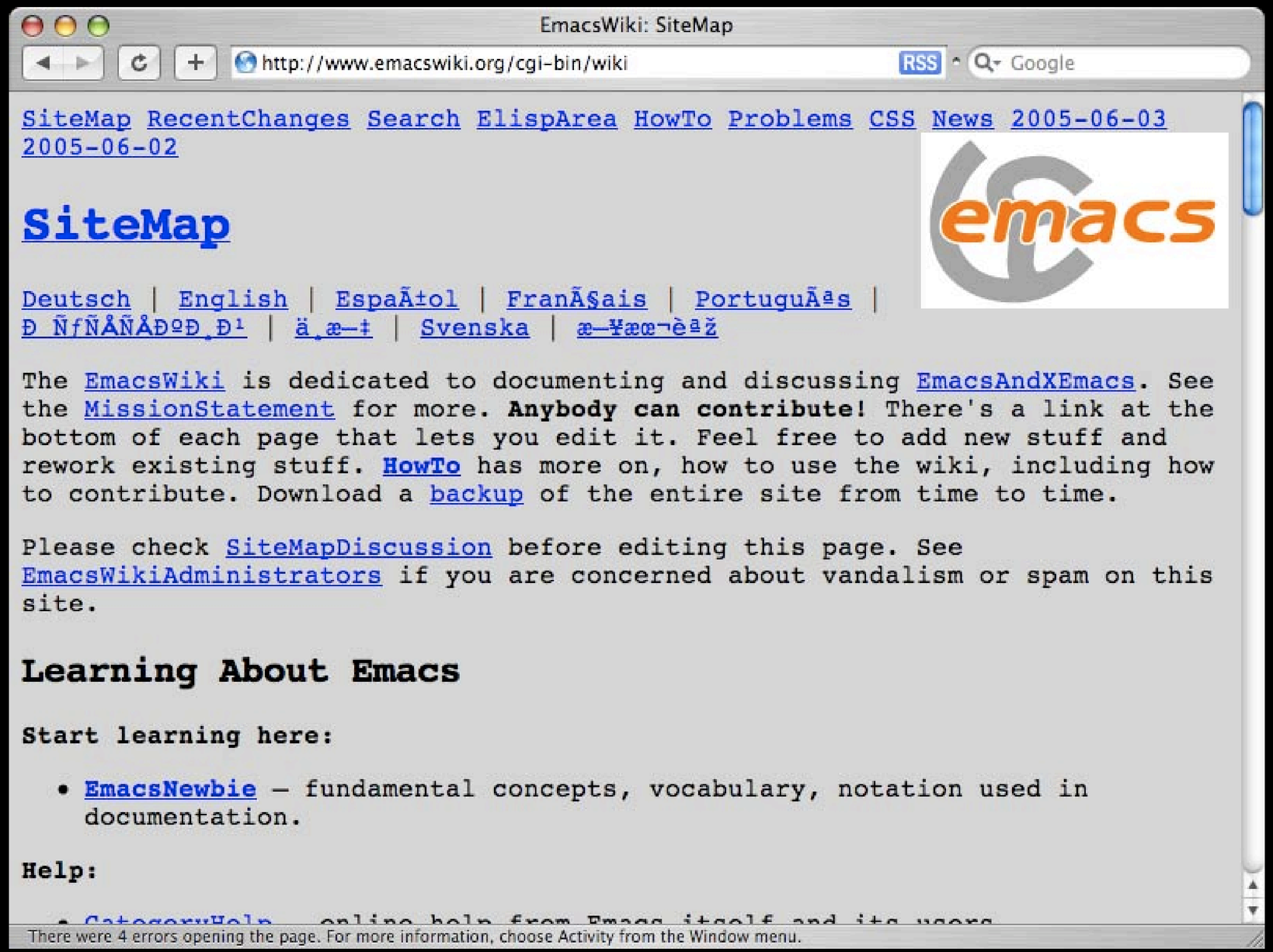
Web Technologies Won’t Work for Me

- I can’t get the layout I want with HTML and CSS
- I can’t achieve my desired results with JavaScript
- JavaScript is slow

Yes, They Will!

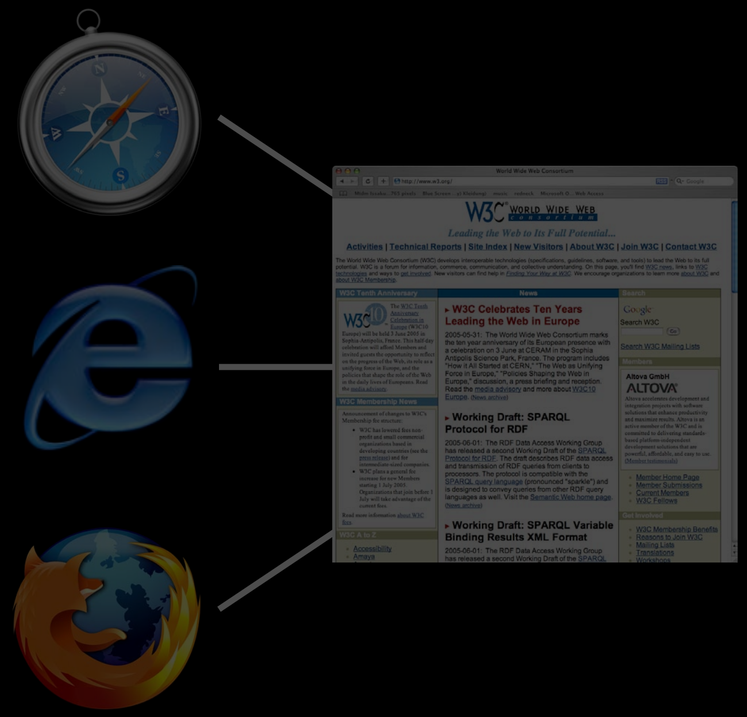


Case Study: Wiki for the New Web

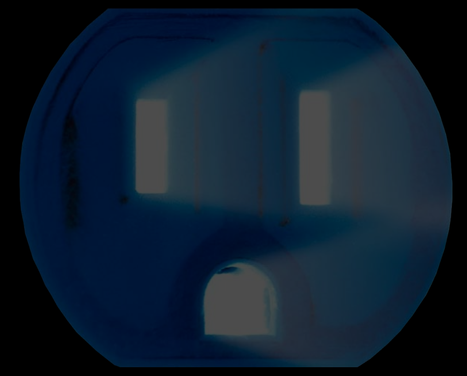


The Best Wiki On the Web

Roadmap to the New Web



RSS



Compatibility

Best Practices, Doctypes, and Validators

Extras

Extensions, RSS

Plug-ins

They’re for Everyone !

Hi: 71°
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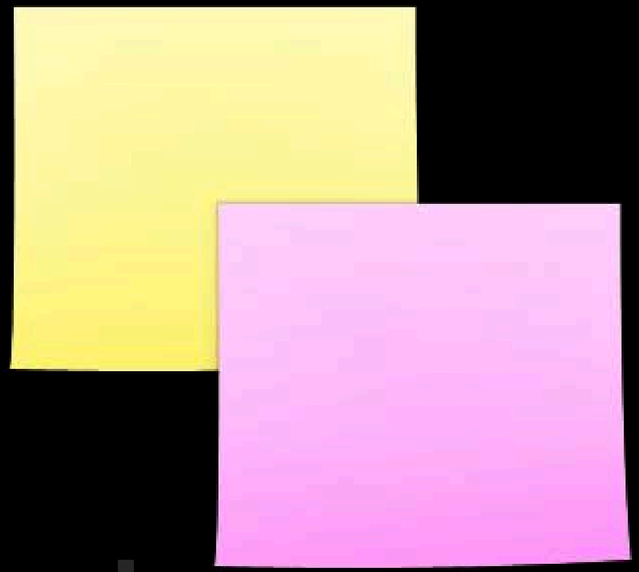

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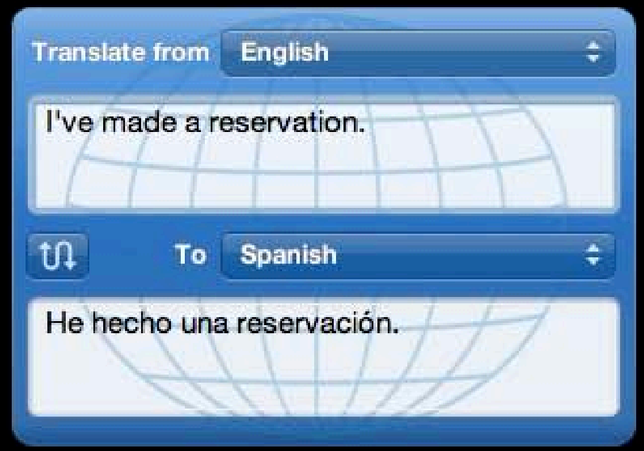

Translate from English
I've made a reservation.
To Spanish
He hecho una reservación.

INDU 10549.87 + 82.39
COMPX 2087.86 + N/A
AAPL 40.30 + N/A
EBAY 39.11 + N/A
GOOG 288.00 + N/A
AMZN 36.50 + N/A
1d 3m 6m 1y 2y
45
39
36
31
Jan Feb Mar Apr May Jun
Markets closed

Best Practices for Web Compatibility

“My website looks wrong!”

http://developer.apple.com/wwdc2005/

Do Some Research

W3C documentation

- HTML and XHTML
  - http://www.w3.org/MarkUp/
- CSS
  - http://www.w3.org/Style/CSS/
- DOM
  - http://www.w3.org/DOM/

Do Some Research

Compatibility tables

- DOM compatibility
  - http://www.quirksmode.org/dom/
- CSS compatibility
  - http://www.quirksmode.org/css/contents.html
- Javascript event compatibility
  - http://www.quirksmode.org/js/events_compinfo.html

The Right Mode

Using doctypes

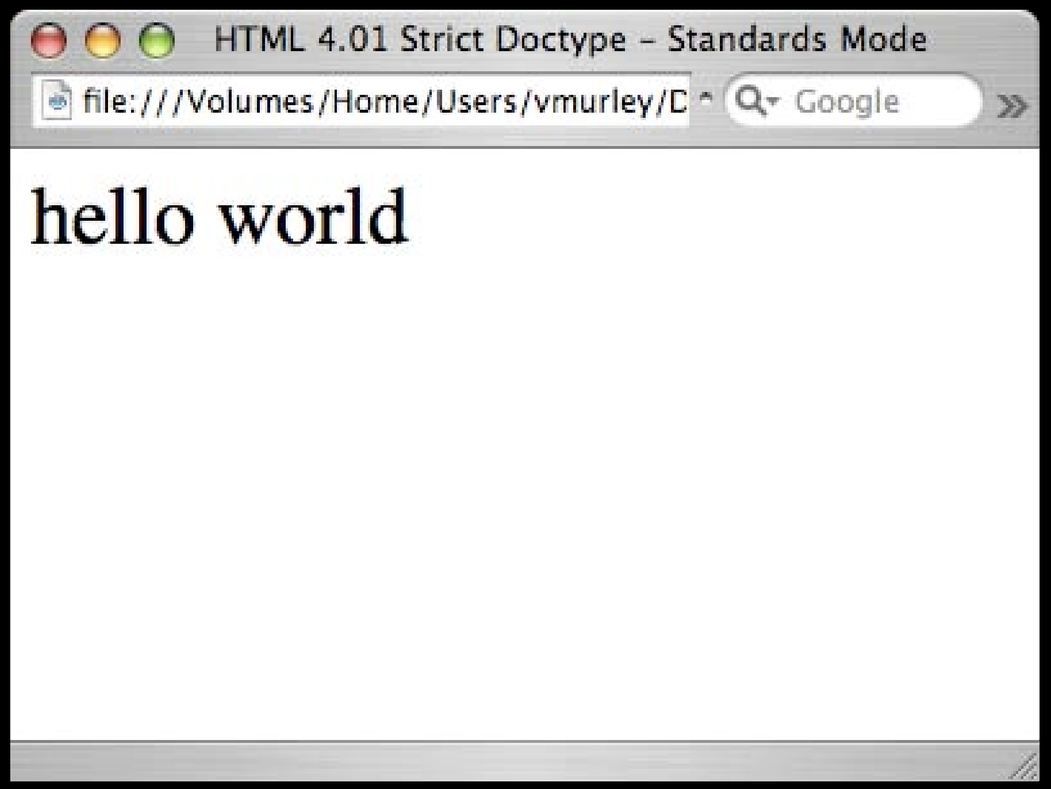
- Example: HTML 4.01 strict

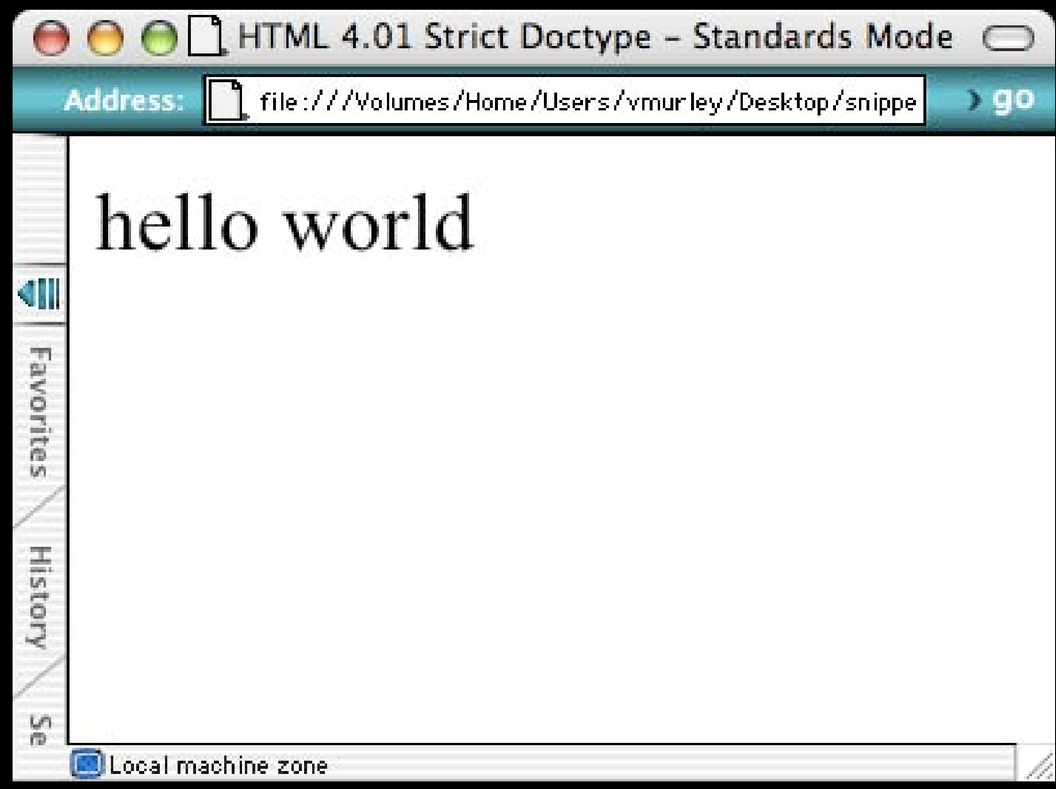
```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
```

- Doctype switching
  - Standards (“strict”) mode
  - Compatibility (“quirks”) mode
- No doctype or malformed doctype ⟶ compatibility mode

Compatibility Mode vs. Standards Mode

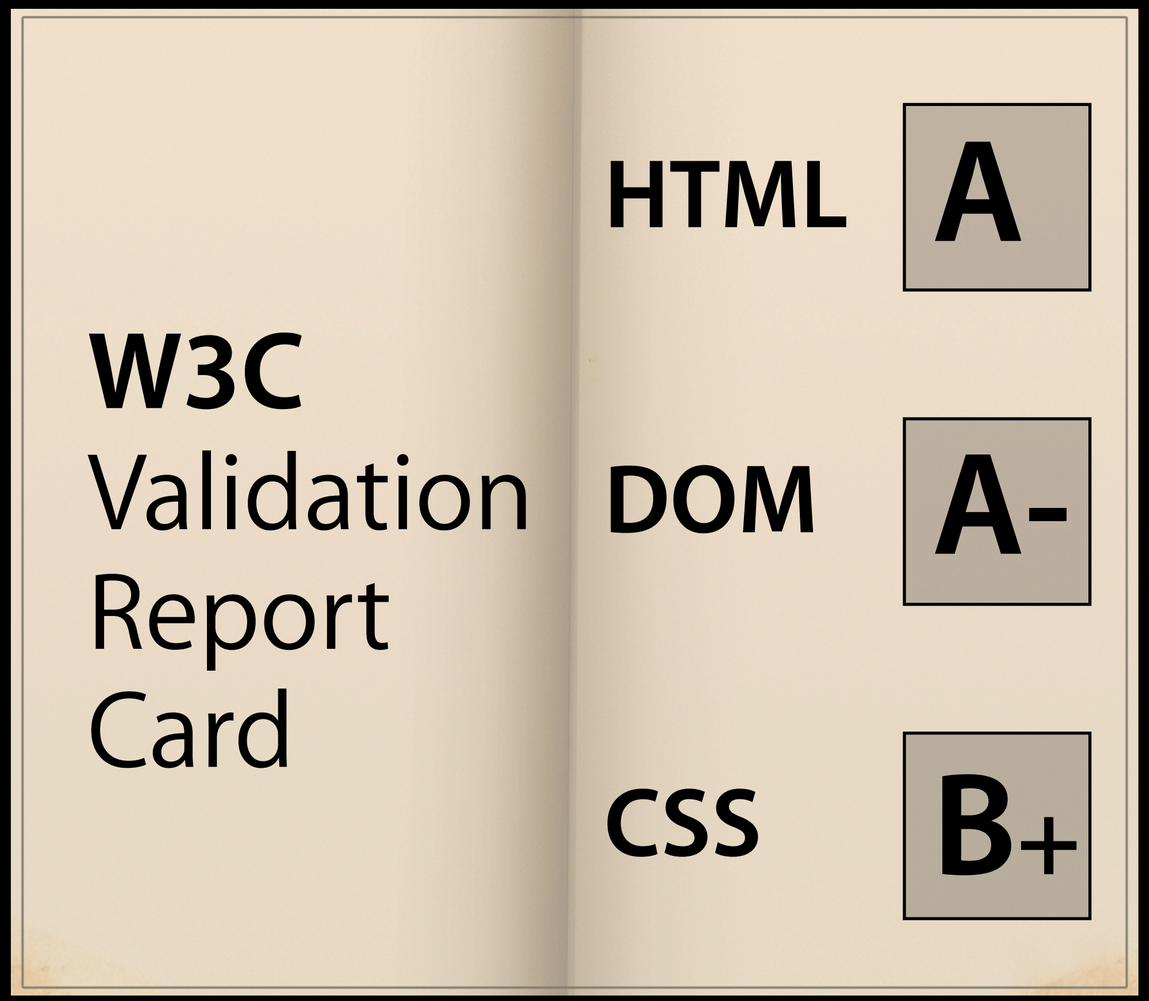
```
<div style="font-size: xx-large;">hello world</div>
```





Validate Your Code!

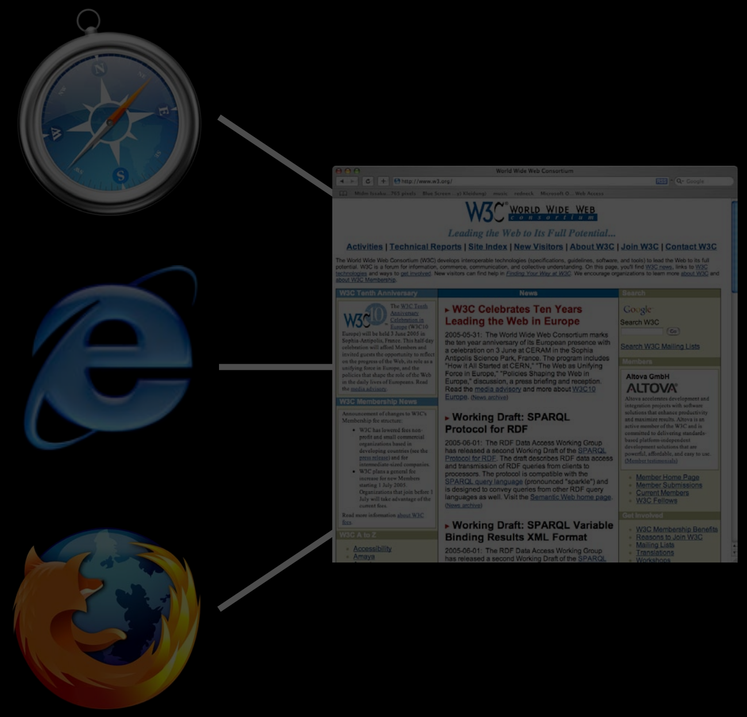
- Checks your code against claimed syntax
- Browser doesn't have to second-guess you



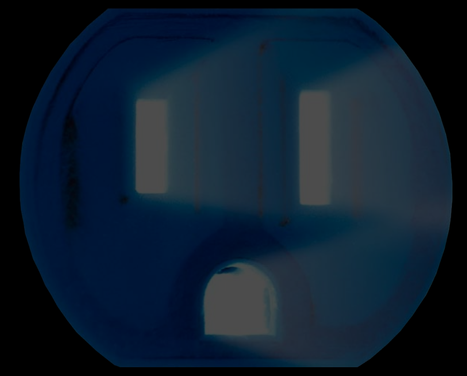
Validate Your Code!

- Common validation errors
  - Lowercase doctype
  - Incorrect nesting
  - Uppercase tags
  - Unquoted value attributes
  - Missing closing "/" on empty elements (e.g. <img>, <br>)
- Tools
  - W3C markup validator
    - http://validator.w3.org/
  - W3C CSS validator
    - http://jigsaw.w3.org/css-validator/

Roadmap to the New Web



RSS



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Extras

Extensions, RSS

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They’re for Everyone !

Extras

Extensions, RSS, and custom elements for Safari

http://developer.apple.com/wwdc2005/

Goodbye, Page Reload

- contenteditable
  - Attribute that can be set on any element
  - Enables inline-rich text HTML editing

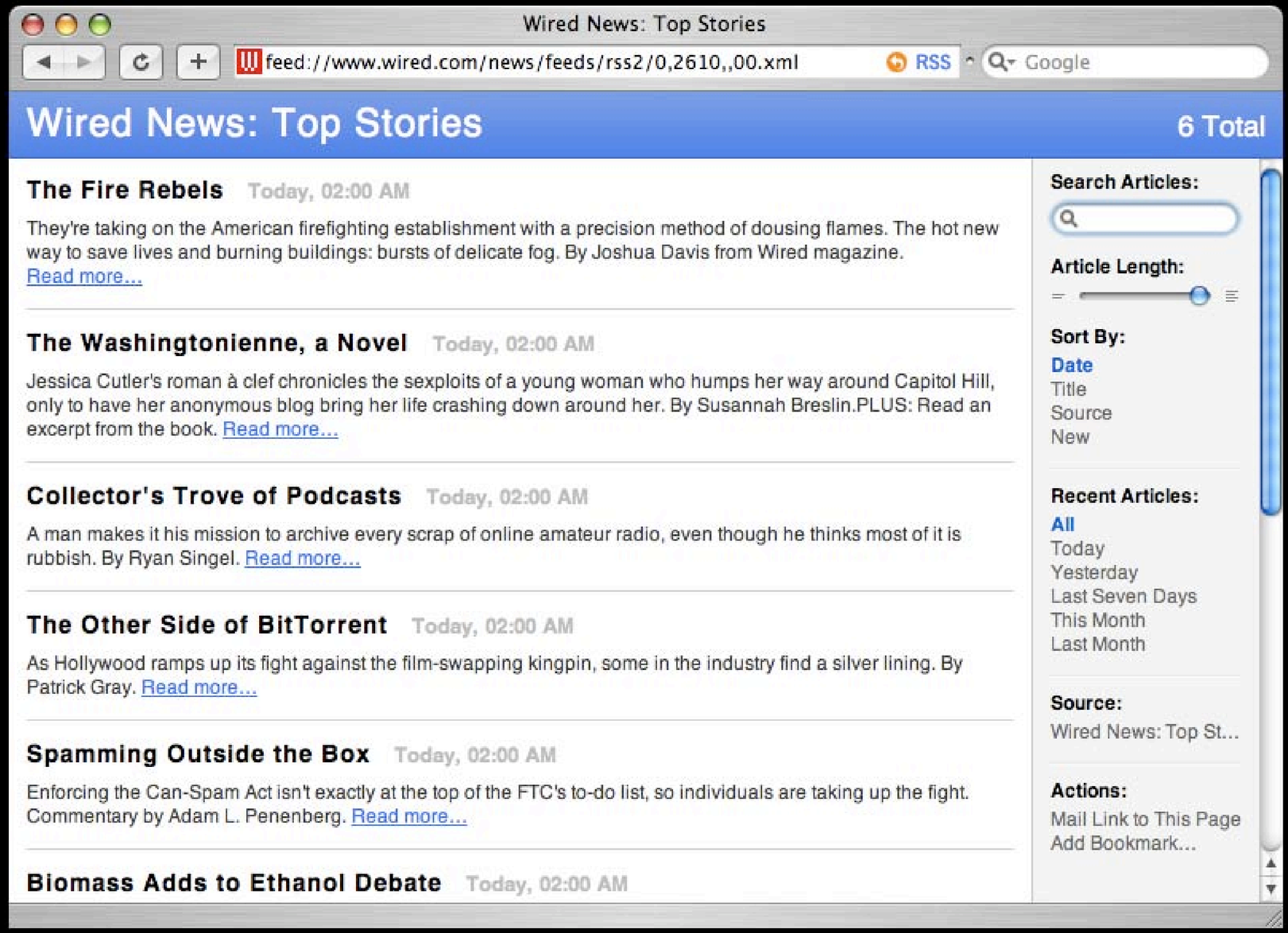
- XMLHTTPRequest
  - First implemented in Win IE, now a de facto standard
  - Allows client to submit and retrieve data in the background

Demo

Editing pages in the new Web

http://developer.apple.com/wwdc2005/

Safari-specific Extensions



Safari-specific Extensions

```
<input type="search">
```

`placeholder`
Default text, grayed out

`incremental`
Executes onSearch handler on the pause that follows typing

`results`
Number of results to show in the list

`autosave`
Persist items in search list across sessions

```
<input type="range">
```

`min`
Minimum value
`max`
Maximum value
`precision`
Sets float vs. integer

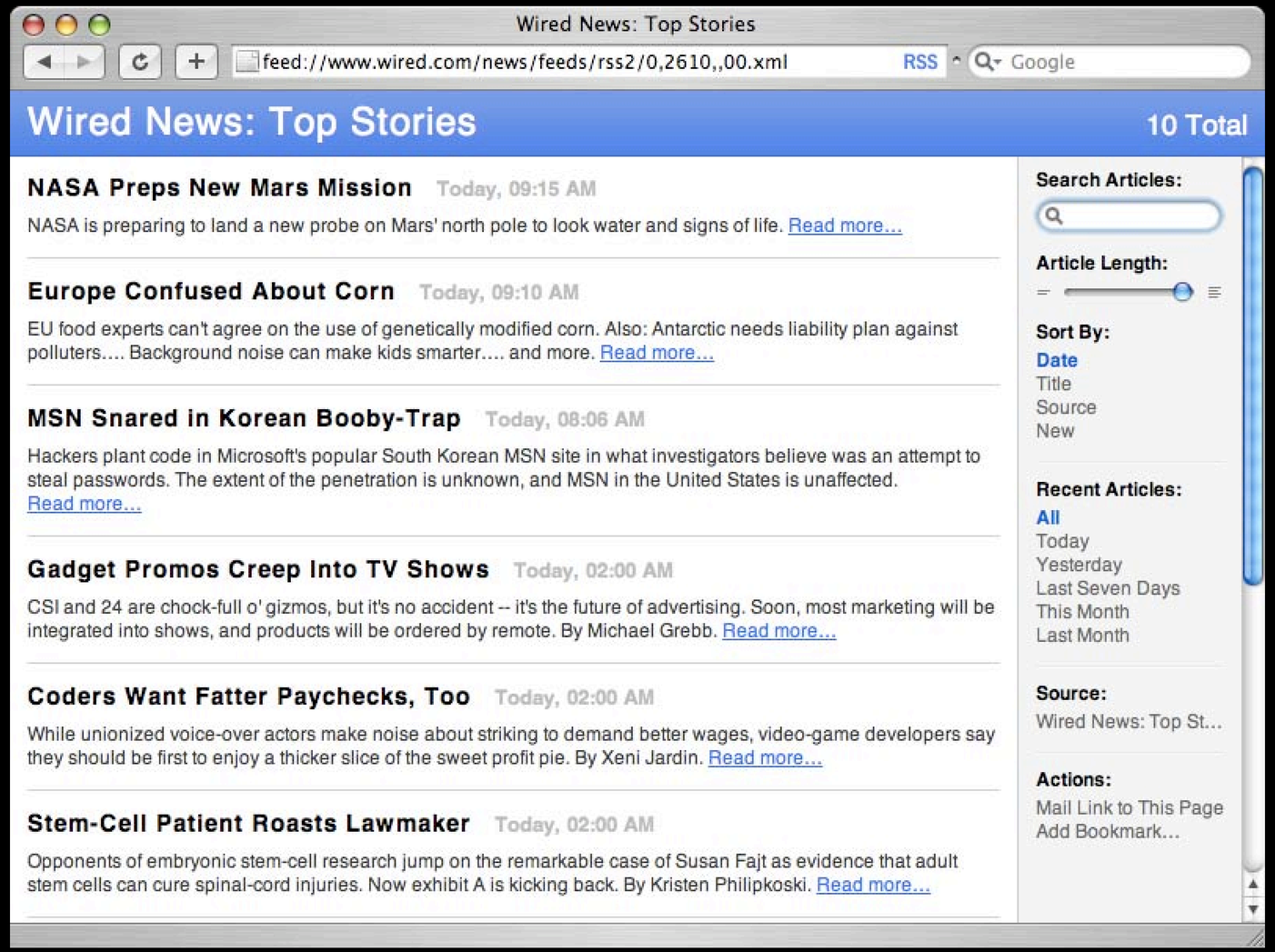
Input event fires when the value changes

Adding an RSS Feed

- Identify content
- Code
- Validate
  - Beware of XML syntax pitfalls
    - Replace symbols like < and & with HTML equivalents: < and &
  - Use online tools
    - http://www.feedvalidator.com
- Publish

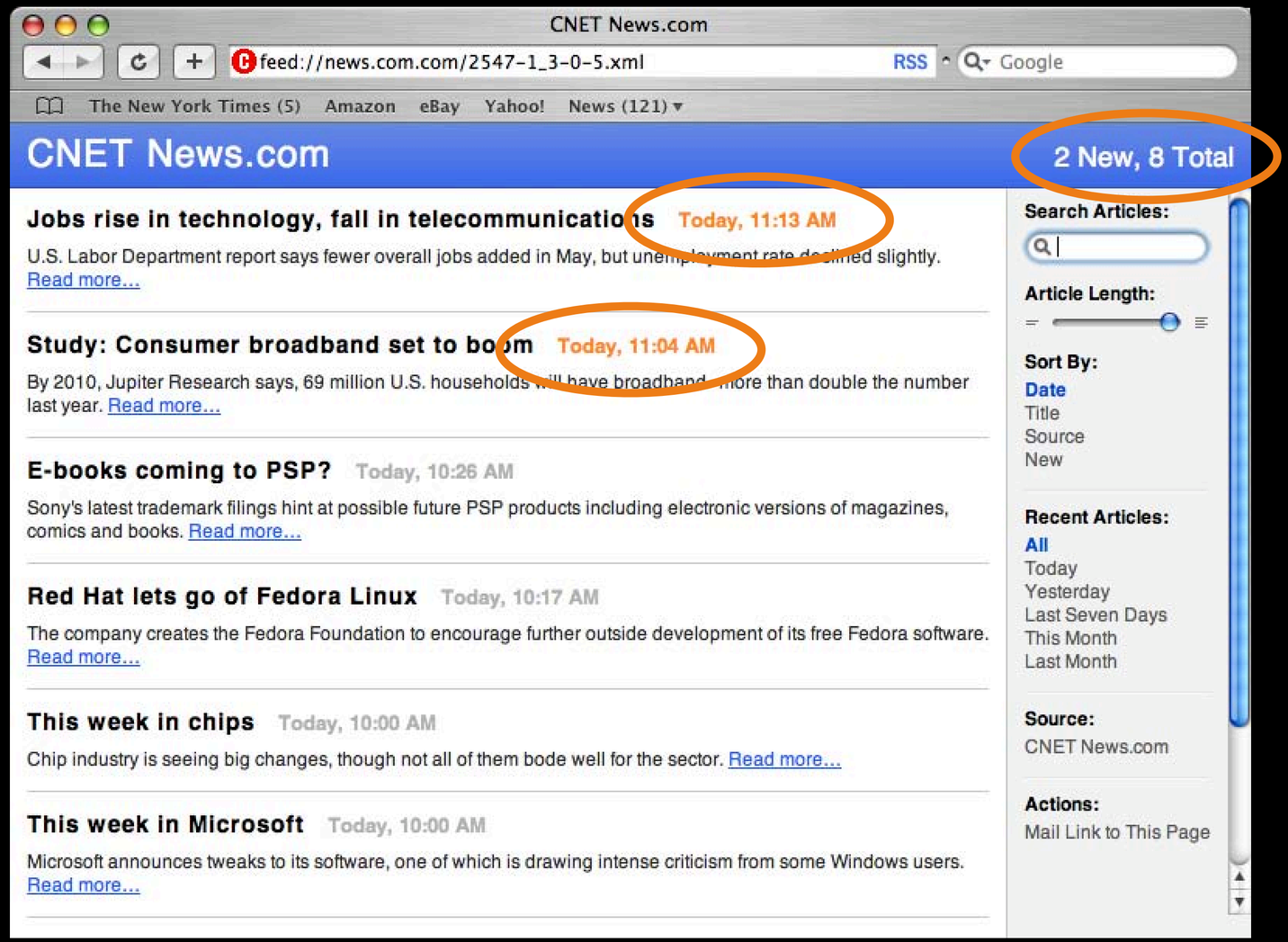
Why Add an RSS Feed?

Delivers content in a different format



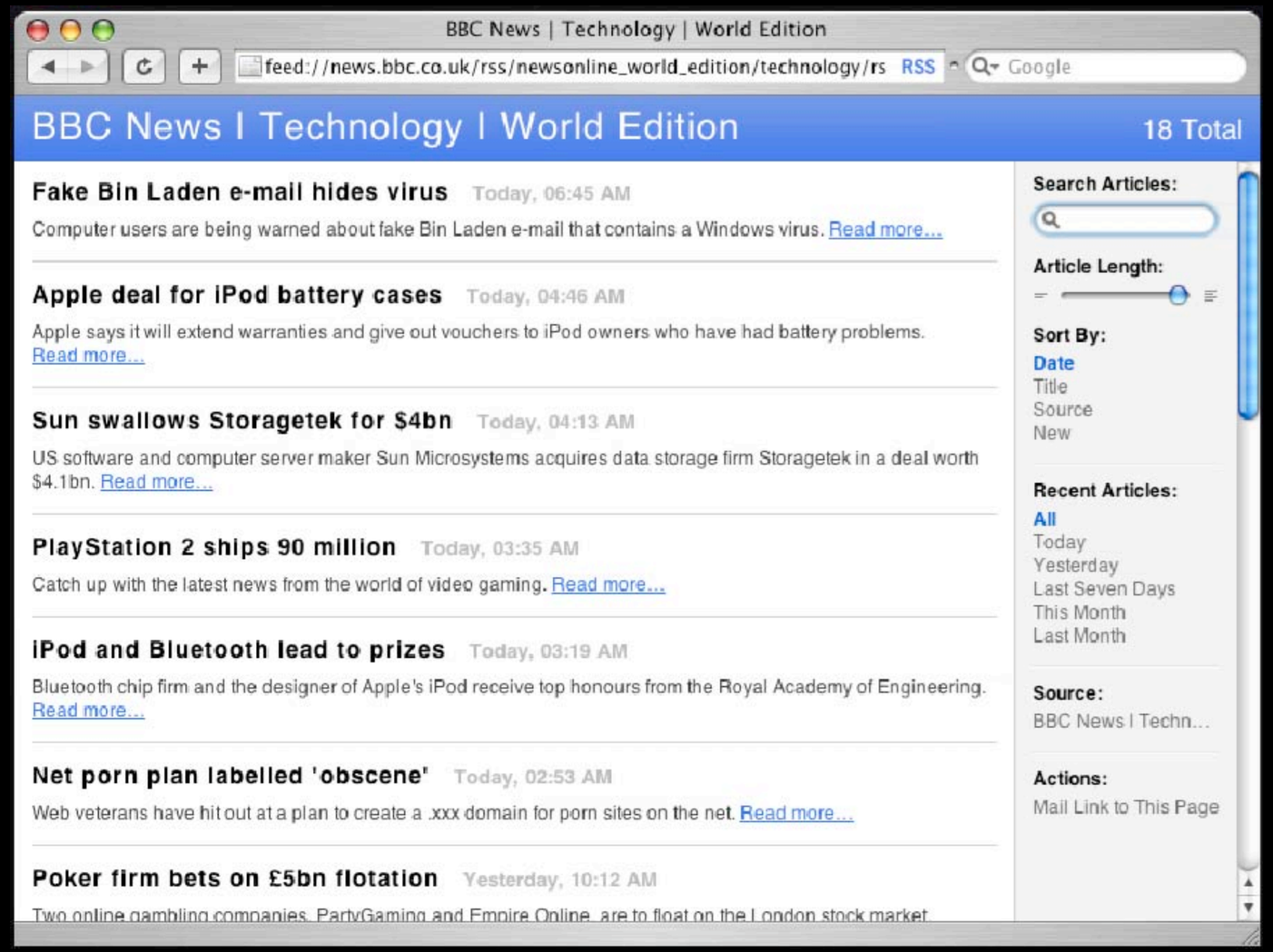
Why Add an RSS Feed?

Updates are easily recognized



Why Add an RSS Feed?

Easily searchable



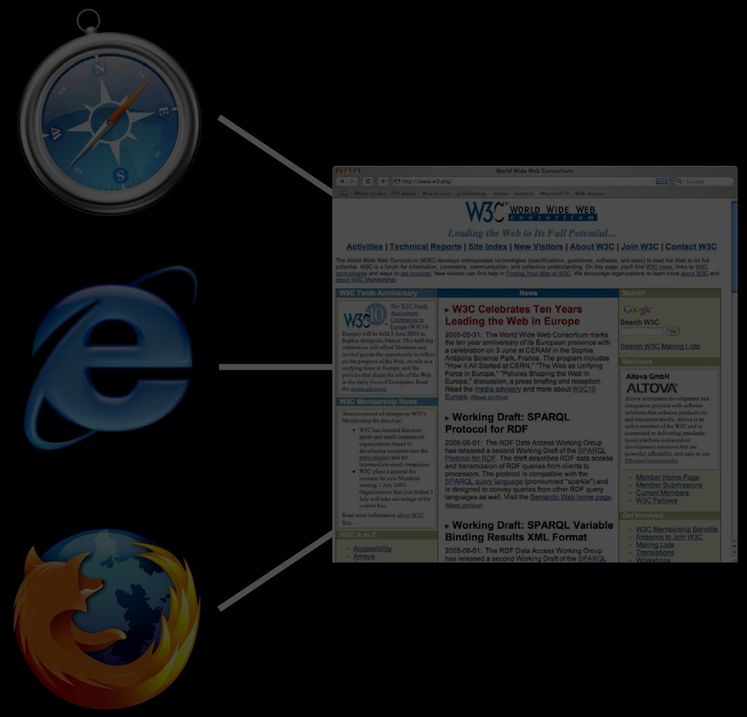
Demo

Adding an RSS feed to your site …with XMLHttpRequest!

Adele Peterson
Safari QA Engineer

http://developer.apple.com/wwdc2005/

Roadmap to the New Web



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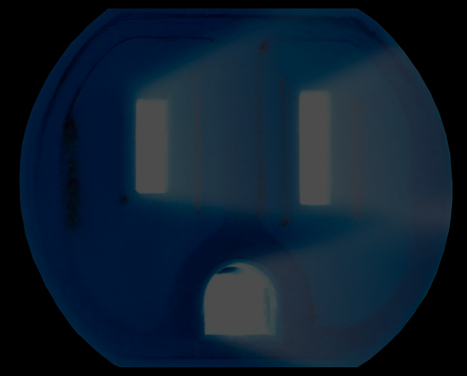

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Plug-ins

Adding native functionality to websites

http://developer.apple.com/wwdc2005/

Plug-ins

- Netscape style plug-ins
  - Compatible with Safari, Firefox, and OmniWeb
- Web kit plug-ins
  - Extremely easy to implement
  - Compatible with any Web kit-based application

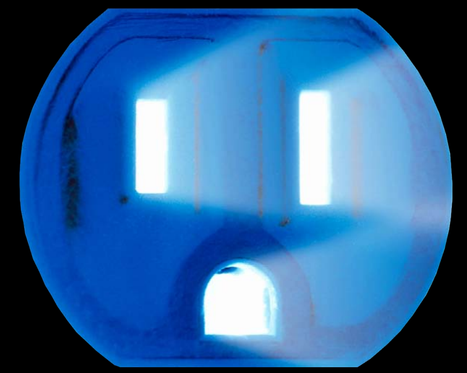
Demo

Adding a plug-in to your site

Kevin Decker
Safari Intern

http://developer.apple.com/wwdc2005/

Roadmap to the New Web



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More Information

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Resources from this Session

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  - http://www.w3.org/Style/CSS/
  - http://www.w3.org/DOM/
- Compatibility tables
  - http://www.quirksmode.org/dom/
  - http://www.quirksmode.org/css/contents.html
  - http://www.quirksmode.org/js/events_compinfo.html
- Validators
  - http://validator.w3.org/
  - http://jigsaw.w3.org/css-validator/
  - http://www.feedvalidator.com

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WWDC2005

Worldwide Developers Conference